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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Application of :
Hideki KITAJIMA et al. :
Serial No. [not yet assigned] :
Filed: October 26, 2001 :
For: IMAGE READING APPARATUS : Docket No. S004-4432(PCT)

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COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, DC 20231

PRELIMINARY AMENDMENT CANCELLING
CLAIMS TO REDUCE FILING FEE

S I R:

Applicants preliminarily amend thier application
before calculation of the filing fee as follows:

IN THE CLAIMS:

Cancel claims 3-14 before calculating the filing
fee.

BY EXPRESS MAIL ON OCTOBER 26, 2001 (EK 825 216 591 US)

REMARKS

As prescribed in MPEP §714.09, applicants hereby
cancel claims 3-14 before the filing fee is calculated to
thereby reduce the filing fee.

Respectfully submitted,

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SECOND PRELIMINARY AMENDMENT

S I R:

Applicants preliminarily amend their application as follows:

IN THE CLAIMS:

Kindly add the following claims 15-26:

15. An image reading apparatus according to Claim 1, characterized in that the first light detecting means is at a position where it receives reflected light generated from the interface between the object of reading and the input surface and determined by Snell's law.

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16. An image reading apparatus according to Claim 1, characterized in that the first light detecting means is at a position where it receives reflected light generated from the interface between the object of reading and the input surface and determined by Snell's law and scattered light generated from the interface between the input surface of the first rotary member and the object of reading.

17. An image reading apparatus according to Claim 2, characterized in that incident light emitted from the first light source and incident on the input surface has a plurality of different incidence angle components.

18. An image reading apparatus according to Claim 1, characterized in that the image reading apparatus has one of an image formation optical system and a mirror between optical paths of the first rotary member and the first light detecting means.

19. An image reading apparatus according to Claim 1, characterized in that the image reading apparatus has an optical fiber bundle between the optical paths of the first rotary member and the first light detecting means.

20. An image reading apparatus according to Claim 1, characterized in that the first rotary member is formed of a glass base material which is an inorganic base material or a synthetic resin which is an organic base material.

21. An image reading apparatus according to Claim 1, characterized in that the image reading apparatus has, on the input surface of the first rotary member, a dirt prevention layer adapted to prevent dirt from adhering to the surface.

22. An image reading apparatus according to Claim 1, characterized in that the image apparatus has a cleaner adapted to remove dirt adhering to the surface of the first rotary member.

23. An image reading apparatus according to Claim 1, characterized in that the object of reading includes an object of reading having protrusions and recesses like a fingerprint and an object of reading having light and shade like an original.

24. An image reading apparatus according to Claim 1, characterized in that the image reading apparatus has a function by which a one-dimensional position input is effected in accordance with the rotating amount of the first rotary member.

25. An image reading apparatus according to Claim 1, further comprising a second rotary member having a rotation axis different from the rotation axis of the first rotary member and a means for detecting a rotating amount of the

second rotary member, wherein there is provided a function by which a two-dimensional position input is effected in accordance with the rotating amount of the first rotary member and that of the second rotary member.

26. An image reading apparatus according to Claim 2, further comprising a second rotary member which has a rotation axis different from the rotation axis of the first rotary member and on the surface of one end portion of which a light-dark pattern is formed, a second light source, a second light detecting means, and a rotating amount detecting means for detecting a rotating amount of the second rotary member by detecting light emitted from the second light source and transmitted through the light-dark pattern formed on the surface of the second rotary member, wherein there is provided a function by which a two-dimensional position input is effected in accordance with the rotating amount of the first rotary member and that of the second rotary member.

ADDITIONAL FEES:

No additional fees are believed required; however, should it be determined that a fee is due, authorization is hereby given to charge any such fee to our Deposit Account No. 01-0268.

REMARKS

In accordance with this preliminary amendment, new claims 15-26 have been added. These claims correspond to original claims 3-14 except that they are each singly dependent on only one claim.

Early and favorable action is earnestly solicited.

Respectfully submitted,

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